# CITY OF SOUTH JORDAN

# BUILDING DEPARTMENT

# PHOTO-VOLTAIC P.V. SYSTEM PLAN REVIEW REQUIREMENTS

1. **On standard permit application provide Value of project Address of project and owners name, general contractor name, state license # and contact person along with any other contractors, filled out on permit application.**
2. **If PV array is to be installed on the roof, please provide a letter from either the structural engineer of record for new construction or for an existing building a structural engineers' letter stating that the roof structure will support the increased load of the array and any additional snow drift loading, or provide the engineers designed upgrade of the roof structure to support additional load imposed on the structure. Note evenly distribute load across all trusses under array, stagger feet between rail runs.**
3. **Site plan drawn to scale. This shall show access if roof mounted, equipment locations, type and size of connections and size and type of conductors, disconnects, array wiring and equipment grounding. Show compliance with IFC 605.11.3 through 605.11.3.2.4 for access & ventilation by Fire Dept.**
4. **Show size of service including bus bar rated amperage and that the back fed breaker won't over load service and location in panel of back fed protection, along with a sign that protects the location of the back fed breaker so that it won't be moved in the future. Provide a picture of service panel with the location of the back-fed breaker.**
5. **Show that the back-fed breaker is of an approved design and that location will comply with NEC 120% rule and with NEC article 705.12(D)(7) or 230.82(6) Tap rule.**
6. **If grounding / bonding wire is smaller than #6 solid copper in must be in conduit even if installed under array.**
7. **Cut sheets and instruction manual for the inverter with the applicable model numbers highlighted and the UL or comparable listings noted.**
8. **Cut sheets for the PV modules, which need to include VOC rating, ISC rating, PMAX, maximum series fuse rating, voltage at PMAX and current at PMAX. Panels or modules must be of one manufacturer and be listed and labeled.**
9. **Cut sheets on batteries, if used, and connection diagrams with cable sizes. Identify battery fusing and fuse holders, provide AMP hour of battery bank and charging capacity of charge system.**
10. **Identify wire types and connectors of all cables.**
11. **Show how batteries will be provided with ventilation, also how they will be protected depending on location of batteries.**
12. **Provide specifications and details for array mounting, attachment devices, including how they will be flashed, and sealed. Rack system must be of one manufacturer and compatible with what is shown and what will be installed.**
13. **Span tables for rack design for 115 M.P.H. wind loading.**
14. **Show that conduit for PV system is permanently identified, that junction boxes are NEMA approved and orientated and installed to manufacturers specifications.**

15. **Show how wiring between modules will be supported and secured by an approved device and manner to prevent sagging and prevent exposure to the wind and weather to prevent damaging ICE-BUILDUP on wire (wire management) (wire-ties not approved).**
16. **Show all warning signs and locations including a map to location of back feed breaker if not at location of service disconnect.**
17. **Exhibits submitted to address these comments must be identified as to which comment they pertain to.**